542 are formed of a more flexible but resilient material such as silicone that is fused at its boundaries with flange **510** and fingers **540**.

[0090] While a grip 500 of two integrated materials exhibiting the two different properties (rigid and flexible) can be very useful, it can be expensive to manufacture. As such, in alternative embodiments grip 500 may be manufactured from a single material for the sleeve 505, fingers 540 and webs 542 with the relative rigidity and flexibility produced through differing thicknesses at different points throughout the grip 500 of the one material rather than necessarily from different materials. For example, the interfaces between the webs 542 and the fingers 540 and flange 510 may incorporate less of the material than between the fingers 540 and the flange 510 thereby to permit webs 542 to be flexed relative to the flange 510 and fingers 540 more than the fingers 540 can flex relative to the flange 510. In this way, the resilience of fingers 540 with respect to flange 510 can be maintained while reducing the rigidifying effect of the webs 542 between the fingers 540.

[0091] FIG. 20 is a top plan view of the grip 500, FIG. 21 is a bottom plan view of the grip 500, FIG. 22 is a perspective bottom view of the grip 500, FIG. 23 is a perspective top view, partially sectioned, of the grip 500, FIG. 24 is a perspective bottom view, partially sectioned, of the grip 500, FIG. 25 is another perspective top view, partially sectioned below the horizontal components of the sleeve 505, the fingers 540 and the webs 542, of the grip 500, FIG. 26 is another perspective bottom view, partially sectioned, of the compression member of FIG. 18.

[0092] The radiopharmaceutical pigs 20 and 200 described and illustrated are particularly suitable for transporting radioactive substances such as liquid and solid radiopharmaceuticals due to the radioactivity-shielding character of the container 24, but can be adapted to transport other biohazardous products and materials without the use of radioactivity shielding by hermetically sealing the container

[0093] Various embodiments of the present invention comprising been thus described in detail by way of example, it will be apparent to those skilled in the art that variations and modifications may be made without departing from the invention. The invention includes all such variations and modifications as fall within the scope of the appended claims.

[0094] For example, while embodiments described herein involve the compartment 24 of body 22 or body 220 being dimensioned to receive only a container of the biohazardous material, embodiments are contemplated in which the compartment 24 is dimensioned to receive a container in addition to a sponge, such as a cellulose sponge, for physically absorbing liquid originally contained within the received container should it escape from the container during transportation or other handling. Some regulators require that there be provided a quantity of sponge that is capable of absorbing twice the volume of liquid to be contained within the container. Such a cellulose sponge may be formed as a slab and positioned at the bottom of compartment 24 underneath the container, but may alternatively be formed as a cup having a bottom and a sleeve dimensioned to receive the container and, in turn, to be received within compartment 24. The cellulose sponge slab or sleeve would be a consum[0095] Furthermore, while handle assembly depicted and describe herein has two struts, alternatives are contemplated having more than two struts, or other structures for encapsulating the body within the handle assembly.

[0096] Still further, very thin layers of rubber or other frictional material may be placed at the interfaces between collar 30a and cap closure 30b and collar 30a and body 22 in order to resist inadvertent relative movements when being transported to thereby resist inadvertent exposure to the contents of the container 10.

What is claimed is:

- 1. A pig for transporting a container of biohazardous material, wherein the container comprises a bottle and a bottle closure, the pig comprising:
 - a body comprising a compartment dimensioned to receive the container;
 - a cap attachable to the body for closing the compartment thereby to shieldingly contain the biohazardous material in the container, the cap comprising:
 - a collar sealingly engageable with the body and having an opening therethrough in communication with the compartment thereby to provide access to the bottle closure:
 - a cap closure sealingly engageable within the opening of the collar to sealingly close the opening and cause the bottle closure to be gripped within the cap,
 - wherein when the collar is disengaged from the body while the cap closure is engaged within the opening of the collar, the container remains gripped within the cap.
- 2. The pig of claim 1, wherein the cap closure comprises an annulus projecting into the opening for causing the bottle closure to be gripped within the cap.
- 3. The pig of claim 2, further comprising a compression member dimensioned to be positioned intermediate the bottle closure and the annulus, the compression member being compressed against the bottle closure by the annulus while the cap closure is sealingly engaged within the opening of the collar.
- **4**. The pig of claim **3**, wherein the compression member comprises:
 - a flange;
 - spaced apart fingers supported by the flange and forming a circle complementary to an inner wall of the annulus, the spaced apart fingers resiliently compressible inwardly against the bottle closure by compressive engagement of the annulus.
- 5. The pig of claim 4, wherein the compression member comprises lugs extending from the flange and dimensioned to project into complementary bores in a lower edge of the
- **6**. The pig of claim **5**, wherein the compression member is formed of a thermoplastic.
- 7. The pig of claim 1, further comprising a handle assembly encapsulating the body and comprising a handle that is extendable and rotatable through a plurality of orientations with respect to the body.
- **8**. The pig of claim **7**, wherein the handle assembly comprises:
 - an upper collar associated with an upper end of the body; a lower collar associated with a lower end of the body; at least two struts extending between the upper collar and the lower collar thereby to maintain the upper collar and the lower collar in a fixed spaced relationship, the handle associated with and extending from the struts.